

Supplementary Table S1. Relative rate test results for samples with the reference versus non-reference allele at 31 SNPs located in DNA repair-related genes, identified as highly differentiated in drug-resistant *P. falciparum* populations (Miotto et al., 2013). χ^2 values calculated based on comparison of synonymous sites, with p-values based on 6,000 random permutations of SNP group assignment (reference vs non-reference). NR, non-reference; R, reference; ES, effect size.

Ch	Pos.	Description	Num. samples		Synonymous SNPs						All SNPs					
			R	NR	m_{NR-MR}	χ^2	p-val	ES	95%CI		m_{NR-MR}	χ^2	p-val	ES	95%CI	
2	242618	DNA repair endonuclease putative	80	97	-6.433	0.091	0.0273	0.15	-0.14	0.45	-15.815	0.14	0.02567	0.09	-0.21	0.39
5	401707	Hypothetical protein conserved	136	7	2.912	0.018	0.7052	0.06	-0.71	0.82	6.877	0.025	0.735	0.03	-0.73	0.8
5	577697	Deoxyribodipyrimidine photolyase	171	5	6.668	0.102	0.4426	0.19	-0.71	1.08	-2.675	0.004	0.9095	0.02	-0.87	0.91
5	592528	UvrD family helicase	166	11	-10.58	0.269	0.0621	0.27	-0.34	0.89	-27.698	0.47	0.044	0.17	-0.44	0.78
6	238493	RAD50 putative	148	28	-8.312	0.161	0.0308	0.24	-0.17	0.64	-30.127	0.54	0.0015	0.2	-0.21	0.6
7	460125	Hypothetical protein conserved	120	55	-3.706	0.031	0.2303	0.1	-0.22	0.42	-14.073	0.113	0.07117	0.09	-0.23	0.41
7	461139	Hypothetical protein conserved	80	96	3.417	0.026	0.2399	0.08	-0.21	0.38	2.225	0.003	0.752	0.01	-0.28	0.31
7	461364	Hypothetical protein conserved	100	77	-6.23	0.087	0.033	0.16	-0.14	0.46	-14.854	0.126	0.0385	0.09	-0.21	0.39
7	1059929	Exonuclease I putative	158	19	-10.633	0.266	0.0173	0.29	-0.18	0.77	-26.179	0.409	0.0195	0.17	-0.31	0.65
7	1105672	Mismatch repair protein pms1 homolog	161	16	-15.899	0.602	7.0E-04	0.44	-0.07	0.96	-23.261	0.324	0.04883	0.15	-0.37	0.66
9	1346394	DNA excision repair helicase putative	166	11	-9.708	0.219	0.0985	0.3	-0.31	0.91	-19.846	0.232	0.1665	0.15	-0.47	0.76
10	169428	Hypothetical protein	156	21	0.884	0.002	0.8341	0.02	-0.43	0.48	-13.633	0.108	0.20717	0.08	-0.37	0.54
10	256602	Hypothetical protein	168	8	-4.69	0.05	0.4895	0.14	-0.57	0.85	-37.821	0.842	0.02033	0.27	-0.44	0.98

